

BIOL 2302 – Lecture Section 202610
Anatomy & Physiology II
Spring 2026



LAMAR INSTITUTE
OF TECHNOLOGY

INSTRUCTOR CONTACT INFORMATION

Instructor: Elaine Case

Email: ecasey@lit.edu

Office Phone: n/a

Office Location: n/a

Office Hours: See Starfish for available office hours-

[Click Here for Starfish](#)

Credit: 3 semester credit hours (3 hours lecture)

Prerequisite/Co-requisite:

Pre-requisite Biol 2101 and 2301

Passed the Reading/Writing Sections of TSI or any other accepted test

Co-requisite Biol 2102

Course Description

Anatomy & Physiology II is the second part of a two-part sequence. It is a study of the structure and function of the human body, including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

Course Objectives

Upon completion of this course, the student will be able to:

1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
3. Describe the interdependency and interactions of the systems.
4. Explain the contributions of organs and systems to the maintenance of homeostasis.
5. Identify causes and effects of homeostatic imbalances.
6. Describe modern technology and tools used to study anatomy and physiology.

Core Objectives

1. **Critical Thinking Skills:** To include creative thinking, innovation, inquiry, analysis, evaluation and synthesis of information
2. **Communication Skills:** To include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical & Quantitative Skills:** To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork:** To include the ability to connect choices, actions, and consequences to ethical decision-making

TEXTBOOK AND MATERIALS:

REQUIRED = Textbook - OpenStax Anatomy & Physiology Levels I and II

Anatomy and Physiology from OpenStax, Print ISBN 1938168135, Digital ISBN 1947172042,

[Click Here for OpenStax Anatomy & Physiology textbook](#)

Your textbook for this class is available for free online and a print copy, can be purchased online, or obtained through Eagle Learning Essentials. [Click Here for Eagle Learning Essentials](#)

Supplemental = Textbook - WikiBooks – Human Physiology
https://en.wikibooks.org/wiki/Human_Physiology

ATTENDANCE POLICY

1. You must log into Blackboard and access this course a minimum of 3 times per week.
2. Late assignments will be accepted with a deduction as a late penalty. Students will receive a zero for assignments not completed.
3. If you wish to drop this course, you must drop it administratively. If you do not drop, you will receive an F for the course.

Drop Policy

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the [Academic Calendar](#). If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

Student Expected Time Requirement

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16- week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

Course Evaluation

Final grades will be calculated according to the following criteria:

1. Discussion Participation	10%
2. Assignments (Video Quizzes)	20%
3. Chapter Quizzes	20%
4. Midterm & Final Exam	30%
5. Individual & Group Project	20%

100%

GRADING SCALE

90-100 = A

80-89 = B

70-79 = C

60-69 = D

0 – 59 = F

Academic Dishonesty

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty>.

Technical Requirements (for courses using Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

Quizzes and Exams in this course are administered through Blackboard. Exams will be administered with Respondus **LockDown Browser + Respondus Monitor (webcam)**

Requirements to take exams include:

- A reliable computer, desktop or laptop (phones, chromebooks, tablets, and iPads are not allowed).
- Windows: 10, 8, 7
- Mac: OS X 10.10 or higher
- Adobe Flash Player (bundled with the LockDown Browser installation)
- Web camera (internal or external) & microphone
- A reliable internet service provider. A broadband internet connection.
- A room to take the exam where you are alone (other individuals in the room are not allowed)

Watch these overview videos to understand the tools your will be using to take the exam.

Respondus LockDown Browser: <https://www.youtube.com/watch?v=XuX8WoeAycs#action=share>

Respondus Monitor: <https://www.youtube.com/watch?v=hv2L8Q2NpO4-action=share>

Respondus **LockDown Browser + Respondus Monitor (webcam)**

Download Instructions:

- Select the quiz in the course
- Under Quiz Requirements you will see "To take this quiz you must use the Respondus LockDown Browser"
- Below this will appear: "You can use the button below if you have not already downloaded LockDown Browser". Click the button to go to the download page and then follow the instructions
- Use the link to download Respondus LockDown Browser to your computer; follow the installation instructions
- Return to the Quiz page in Brightspace (it may still be open in another tab) and select the quiz
- Select "Launch LockDown Browser"
- The quiz will now start

Note: LockDown Browser only needs to be installed once on a computer or device. It will start automatically from that point forward when a quiz requires it.

Guidelines while taking online quizzes or exams, follow these instructions:

- Ensure you're in a location where you won't be interrupted.
- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach.
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it.
- Clear your desk or workspace of all external materials not permitted - books, papers, other devices.
- Remain at your computer for the duration of the test.
- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam.
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims or hoodies.
 - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move.
 - If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete.
 - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted.

The following violations during testing will result in a grade of zero or reduction in points:

- Using technology or electronic devices of any kind including, but not limited to, iPads, phones, smart glasses, earbuds, smartwatches.
- Leaving the testing environment or face missing from frame or obscured.
- Noises that might indicate external help.
- Any other questionable activities indicating cheating.

Disabilities Statement

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

<https://lit.edu/student-success/starfish>

Student Code of Conduct

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

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Course Requirements

- A Midterm and Final is required with two attempts given per assessment and uses Respondus Lockdown Browser and webcam monitor. The final score will be an **average of attempts**.
- Five quizzes will be given using Respondus Lockdown Browser with two attempts given per assessment. The final score will be an **average of attempts**.
- Students will complete video quizzes and discussion boards for each unit.
- Students will complete an individual project and a group project. A deduction in points will be given for completing group project without partners.
- Late assignments will be accepted with a deduction as a late penalty. Students will receive a zero for assignments not completed.

Respondus Academic Integrity Policy

Lamar Institute of Technology Healthcare and Sciences Courses

Lamar Institute of Technology expects every student to uphold honesty and integrity in all academic work. Academic dishonesty is a violation of the LIT Student Rights and Responsibilities policy and may result in disciplinary action. All online examinations that use Respondus LockDown Browser or similar proctoring tools are subject to these rules.

While the faculty do not presume or accuse students of academic misconduct, certain behaviors and system flagged events have historically been associated with violations of academic integrity. Based on institutional experience and best practices, it is necessary to provide students with a clear list of responsible actions that are expected during all proctored online assessments.

Expectations During Respondus Exams

Respondus LockDown Browser records a continuous video from the required environment check through exam submission. This recording includes your webcam video, screen activity, and mouse movement. The system flags may include (not an exhaustive list): missing from or obstructed camera view, background noise, or technical concerns. Instructors are able to review each flagged incident as well as the full exam recording. Students are expected to comply with the following requirements during all online examinations that use Respondus LockDown Browser or similar proctoring tools.

- Students must remain fully visible within the webcam frame for the entire exam period. The full face and upper torso must be visible at all times.
- Students must not obstruct, cover, mute, disable, or otherwise interfere with webcam or audio monitoring.
- Students must be seated at a desk or table in a well-lit room and may not lie down during the exam. If a laptop is placed on the student's lap, the student is responsible for proper camera positioning.
- Students must complete the exam alone. No other individuals may be present in the room.
- There must be no television, radio, or other background noise. While occasional uncontrollable sounds may occur, the exam may not be paused, and the student may not leave the camera view.
- A required environment check must include a complete 360-degree view of the surrounding area and a clear view of the entire desktop or table surface being used. If a fixed camera cannot be moved, a mirror may be used.
- Students may not use cell phones, smart watches, headphones, earbuds, meta glasses, second monitors, recording devices, or any other unauthorized materials.
- Hats, sunglasses, and face coverings are not permitted. Hooded garments may not be pulled over the forehead or obscure the face.

- Students may not look off screen, out of view, or downward for extended periods unless an approved calculator, textbook, or notes are permitted and clearly displayed during the environment check.
- If a textbook or notes are permitted, evidence must be provided during the environment check that no additional materials are accessible.
- If scrap paper is permitted, all written work related to exam questions must be shown to the camera as directed. Required uploads of written work must be submitted to Blackboard within 24 hours of exam completion, unless otherwise instructed.
- Students may not talk, whisper, mouth words, or read questions aloud during the exam.
- Students may not attempt to open new browser windows, external websites, or outside applications.
- Repeated or extended absence of the student's face from the camera view, particularly after an on screen warning, is not permitted.
- Movements or behaviors consistent with the use of a phone, second device, or outside assistance are not permitted.
- Audio or visual indicators suggesting outside assistance are not permitted.
- Copying, recording, photographing, or sharing exam questions or answers before, during, or after the exam is prohibited.

Any action that violates the rules listed above or that shows an attempt to obtain an unfair advantage will be treated as academic misconduct. The instructor will review all Respondus recordings and reports. If concerning behavior is found, the instructor will determine the appropriate level of action based on the strength of the evidence. The instructor may request a meeting, either in-person or via Teams, to review the exam content with you to ascertain your level of knowledge. You must schedule a meeting with the instructor within 5 business days if you wish to refute their findings. If you do not respond within 5 business days, the grade will not be changed.

Level One: Minor Irregularity

Examples:

Lingering off screen glances (in directions other than a calculator or scratch worksheet), minor webcam glitch, light noise (examples include baby crying, dog barking, doorbell ringing) or audio interference

Result:

Warning and no point deduction

Level Two: Moderate Concern

Examples:

Extended off-screen glances, unclear hand movements, failure to complete an environment check, other people or voices heard within the room, scrap work that is not consistent with the exam questions and/or behavior that raises reasonable suspicion

Result:

20% percent deduction on the exam for each violation

Level Three: Confirmed Academic Misconduct

Examples:

Blatant use of an unauthorized device, receiving outside assistance, attempting to open new applications, use of unauthorized notes or materials

Result:

A grade of Zero (0) on the exam

Level Four: Severe or Repeated Violations

Examples:

Multiple incidents within the course, deliberate attempts to avoid monitoring

Result:

Zero (0) on the exam and referral to Student Services for disciplinary review

All cases of academic dishonesty may result in additional actions as permitted by the LIT Student Rights and Responsibilities policy, which may include course failure, notification sent to all selective programs, or other institutional sanctions depending on severity and recurrence.

WEEKLY CHECKLIST

BIOL 2302 (Lecture) - SPRING 2026

WEEK	ASSIGNMENTS	DUE DATES
Week 1 Jan 20 th – 23 rd Module 4: ~Introduction ~Endocrine System <u>Total Video Time:</u> 14 minutes	<input type="checkbox"/> Discussion Board 1: Introduction <input type="checkbox"/> Discussion Board: Netiquette <input type="checkbox"/> Syllabus Quiz <input type="checkbox"/> Video Quiz: Endocrine (Chapter 17) <input type="checkbox"/> <u>Read OpenStax Chapter 17: Endocrine System</u> <input type="checkbox"/> Read over Individual Project instructions – Organ Poster due 03.06.26 <input type="checkbox"/> Join a group: Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 01.23.26 <input type="checkbox"/> 01.23.26 <input type="checkbox"/> 01.25.26
Week 2 Jan 26 th – 30 th Module 4: ~Endocrine System <u>Total Video Time:</u> 6 minutes	<input type="checkbox"/> Discussion Board 2: Endocrine <input type="checkbox"/> Video Quiz: Fight or Flight (or Freeze) Response (Chapter 17) <input type="checkbox"/> <u>Read OpenStax Chapter 17: Endocrine System</u> <input type="checkbox"/> Start working on Individual Project – Organ Poster due 03.06.26 <input type="checkbox"/> Start working with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 02.01.26
Week 3 Feb 2 nd – 6 th Module 4: ~Cardiovascular (Blood) <u>Total Video Time:</u> 5 minutes	<input type="checkbox"/> Discussion Board 3: Blood Type <input type="checkbox"/> Video Quiz: Blood (Chapter 18) <input type="checkbox"/> <u>Read OpenStax Chapter 18: Blood</u> <input type="checkbox"/> Work on Individual Project – Organ Poster due 03.06.26 <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 02.08.26
Week 4 Feb. 9 th – 13 th Module 4: ~Cardiovascular (Heart) <u>Total Video Time:</u> 14 minutes	<input type="checkbox"/> Discussion Board 4: Heart <input type="checkbox"/> Video Quiz: Heart (Chapter 19) <input type="checkbox"/> Video Quiz: Blood Vessels (Chapter 20) <input type="checkbox"/> <u>Read OpenStax Chapter 19: Heart</u> <input type="checkbox"/> <u>Read OpenStax Chapter 20: Blood Vessels & Circulation</u> <input type="checkbox"/> QUIZ 1: Chapters 17 – 20 (Endocrine & Cardiovascular) Opens 02.14.26 and Closes 02.15.26 <input type="checkbox"/> Work on Individual Project – Organ Poster due 03.06.26 <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 02.13.26 <input type="checkbox"/> 02.15.26
Week 5	<input type="checkbox"/> Video Quiz: Immune System 1 (Chapter 21)	<input type="checkbox"/> 02.22.26

<p>Feb 16th -20th</p> <p>Module 4: ~Immune System <u>Total Video Time:</u> 20 minutes</p>	<input type="checkbox"/> Video Quiz: Immune System 2 (Chapter 21) <input type="checkbox"/> <u>Read OpenStax Chapter 21: Lymphatic & Immune System</u> <input type="checkbox"/> Work on Individual Project – Organ Poster due 03.06.26 <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	
<p>Week 6</p> <p>Feb 23rd – 27th</p> <p>Module 5: ~Immune System ~Respiratory System <u>Total Video Time:</u> 15 minutes</p>	<input type="checkbox"/> Discussion Board 5: Immune/Lymphatic <input type="checkbox"/> Video Quiz: Immune System 3 (Chapter 21) <input type="checkbox"/> Video Quiz: How the Respiratory System Works (Chapter 22) <input type="checkbox"/> <u>Read OpenStax Chapter 22: Respiratory System</u> <input type="checkbox"/> Work on Individual Project – Organ Poster due 03.06.26 <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 02.27.26 <input type="checkbox"/> 03.01.26
<p>Week 7</p> <p>Mar 2nd – 6th</p> <p>~Respiratory System <u>Total Video Time:</u> 6 minutes</p>	<input type="checkbox"/> Discussion Board 6: Respiratory <input type="checkbox"/> Video Quiz: How Oxygen Travels through your Body (Chapter 22) <input type="checkbox"/> <u>Read OpenStax Chapter 22: Respiratory System</u> <input type="checkbox"/> QUIZ 2: Chapter 21 (Immune) & Chapter 22 (Respiratory) Opens 03.06.26 and Closes 03.08.26 <input type="checkbox"/> DUE: Individual Project – Organ Poster 03.06.26 <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 03.06.26 <input type="checkbox"/> 03.08.65
<p>Week 8</p> <p>Mar 9th -13th</p> <p>Spring Break</p>	<input type="checkbox"/> Sleep, rest, relax <input type="checkbox"/> Enjoy time with family and friends <input type="checkbox"/> Netflix, etc. <input type="checkbox"/> Exercise <input type="checkbox"/> Read a good book <input type="checkbox"/> Do something nice for someone	
<p>Week 9</p> <p>Mar 16th – 20th</p>	<input type="checkbox"/> Review for Midterm Exam <input type="checkbox"/> MIDTERM EXAM Opens 03.18.26 and Closes 03.20.26 (Chapters 17 – 22) <input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 03.20.26
<p>Week 10</p> <p>Mar 23rd – 27th</p> <p>Module 5: ~Digestive System</p>	<input type="checkbox"/> Discussion Board 8 : Digestive <input type="checkbox"/> Video Quiz: Digestive (Chapter 23) <input type="checkbox"/> <u>Read OpenStax Chapter 23: Digestive System</u>	<input type="checkbox"/> 03.29.26

<u>Total Video Time:</u> 10 minutes	<input type="checkbox"/> Work with group members on Group Project – Body Systems & Disease due 04.08.26	
Week 11 Mar 30 th – April 3 rd Module 5: ~Digestive System ~Metabolism <u>Total Video Time:</u> 11 minutes	<input type="checkbox"/> Video Quiz: Metabolism & Nutrition (Chapter 24) <input type="checkbox"/> Read OpenStax Chapter 24: Metabolism & Nutrition <input type="checkbox"/> QUIZ 3: Chapter 23 (Digestive) & Chapter 24 (Metabolism & Nutrition) Opens 04.03.26 and Closes 04.05.26 <input type="checkbox"/> Due SOON → Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 04.03.26 <input type="checkbox"/> 04.05.26
Week 12 April 6 th – 10 th Module 5: ~Urinary System <u>Total Video Time: 7</u> <u>m</u>	<input type="checkbox"/> Discussion Board 9: Post your project and comment on two other projects <input type="checkbox"/> Discussion Board 10: Urinary <input type="checkbox"/> Video Quiz: Urinary System (Chapter 25) <input type="checkbox"/> Read OpenStax Chapter 25: Urinary System DUE → Work with group members on Group Project – Body Systems & Disease due 04.08.26	<input type="checkbox"/> 04.12.26
Week 13 April 13 th – 17 th Module 5: ~Urinary System <u>Total Video Time:</u> 2 minutes	<input type="checkbox"/> Video Quiz: Fluids & Electrolytes (Chapter 26) <input type="checkbox"/> Read OpenStax Chapter 25: Urinary System <input type="checkbox"/> QUIZ 4: Chapter 25 (Urinary) & Chapter 26 (Fluids & Electrolytes) Opens 04.19.26 and Closes 04.21.26	<input type="checkbox"/> 04.17.26 <input type="checkbox"/> 04.19.26
Week 14 April 20 th – April 24 th Module 6: ~Reproductive System <u>Total Video Time:</u> 15 minutes	<input type="checkbox"/> Discussion Board 10: Reproductive <input type="checkbox"/> Video Quiz: Reproductive (Chapter 27) <input type="checkbox"/> Video Quiz Surprising Effects of Pregnancy (Chapter 27) <input type="checkbox"/> Read OpenStax Chapter 27: Reproductive System	<input type="checkbox"/> 04.26.26
Week 15 April 27 th – May 1 st Module 6: ~Reproductive System (Development & Inheritance) <u>Total Video Time:</u> 151 minutes	<input type="checkbox"/> Video Quiz: Development & Inheritance (Chapter 28) <input type="checkbox"/> Read OpenStax Chapter 28: Development & Inheritance <input type="checkbox"/> QUIZ 5: Chapter 27 (Reproductive) & Chapter 28 (Development & Inheritance) Opens 5.01.26 and Closes 05.02.26	<input type="checkbox"/> 05.01.26 <input type="checkbox"/> 05.02.26

Week 16 May 4 th – 8 th Final Exam Review	<input type="checkbox"/> Review for Final Exam <input type="checkbox"/> Make up missing assignments	
Week 17 May 11 th – 13 th ~Final Exam	FINAL EXAM Opens 05.09.26 and Closes 05.11.26 (Chapters 23 – 28) You made it!! Celebrate ☺	▪ 05.11.26

